



Sector #

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PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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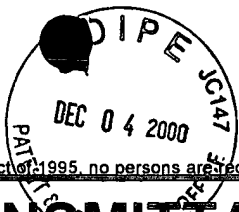
<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)	Application Number	09/648,777	
	Filing Date	August 28, 2000	
	First Named Inventor	SHI, Song-Hua	
	Group Art Unit	1773	
	Examiner Name	Not Assigned	
Total Number of Pages in This Submission	11	Attorney Docket Number	GTRC55

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input checked="" type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	<b>Recordation Cover Sheet</b>
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	<b>Declaration</b>
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	<b>Return Postcard</b>
<input checked="" type="checkbox"/> Response to Missing Parts/ Incomplete Application	Remarks	<b>Return copy of Notice of Missing Parts</b>
<input checked="" type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Todd Deveau TROUTMAN SANDERS LLP
Signature	
Date	29 Nov. 2000

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 11/30/00			
Typed or printed name	Laurie Delesandro	Date	11/30/00
Signature			

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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**FEE TRANSMITTAL**  
**for FY 2001**

Patent fees are subject to annual revision.

**TOTAL AMOUNT OF PAYMENT (\$)** 105.00**C mplete if Known**

Application Number	09/648,777
Filing Date	August 28, 2000
First Named Inventor	SHI, Song-Hua
Examiner Name	To be Assigned
Group Art Unit	1773
Attorney Docket No.	GTRC55

**METHOD OF PAYMENT**

- 1.
- ☐
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit  
Account  
Number

20-1507

Deposit  
Account  
Name

Troutman Sanders LLP

☒ Charge Any Additional Fee Required  
Under 37 CFR 1.16 and 1.17☒ Applicant claims small entity status.  
See 37 CFR 1.27

- 2.
- ☒
- Payment Enclosed:

☒ Check ☐ Credit card ☐ Money  
Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
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101	710	201	355	Utility filing fee
106	320	206	160	Design filing fee
107	490	207	245	Plant filing fee
108	710	208	355	Reissue filing fee
114	150	214	75	Provisional filing fee

Fee Paid

SUBTOTAL (1) (\$)

**2. EXTRA CLAIM FEES**

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	=
Multiple Dependent	-3** =	X	=

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
----------	----------	----------	----------	-----------------

103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim, if not paid
109	80	209	40	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	65.00
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for ex parte reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	218	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00
146	710	246	355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

**SUBMITTED BY**

Name (Print/Type)

Todd Deveau

Registration No.  
(Attorney/Agent)

29,526

**Complete (if applicable)**

Telephone

404 885-2761

Signature

Todd Deveau

Date

29 Nov. 2000

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Patent  
Customer No. 006980  
Docket No.: GTRC55

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of	)	
	)	
SHI, Song-Hua, et al.	)	Group Art Unit: 1773
	)	
Serial No.: 09/648,777	)	Examiner: Not Assigned
	)	
Filed: 28 August 2000	)	
	)	
For: PROCESS AND MATERIAL FOR LOW-	)	
COST FLIP-CHIP SOLDER	)	
INTERCONNECT STRUCTURES	)	

**RESPONSE TO NOTICE TO FILE MISSING**  
**PARTS OF NON-PROVISIONAL APPLICATION-FILING DATE GRANTED**

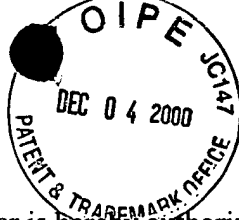
BOX: MISSING PARTS  
Honorable Commissioner of  
Patents  
Washington, D.C. 20231

Atlanta, Georgia 30308-2216

Dear Sir:

The Notice To File Missing Parts of Non-Provisional Application-Filing Date Granted dated 17 October 2000 has been received and reviewed. In response thereto, please find enclosed the original Combined Declaration and Power of Attorney executed and dated by the inventors along with the surcharge under 37 C.F.R. §1.16(e) of \$65.00 for a small entity.

Also enclosed for filing is an Assignment document and Recordation Form Cover Sheet, Form PTO-1619A along with the \$40.00 requisite filing fee.



The Commissioner is hereby authorized to charge any additional fees and credit any overpayment to PTO Account 20-1507.

Respectfully submitted,

Todd Deveau

Registration No. 29,526

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Honorable Commissioner of Patents, Box: Missing Parts Washington, D.C. 20231 on 11/30/00

LAURIE DELESANDRO

Name of Applicant Assignee, or  
Registered Representative

Signature

11/30/00

Date

Troutman Sanders  
Bank of America Plaza, Suite 5200  
600 Peachtree Street, N.E.  
Atlanta, Georgia 30308-2216  
404.885-2761



# UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/648,777	08/28/2000	Song-Hua Shi	GTRC55

006980

TROUTMAN SANDERS LLP  
BANK OF AMERICA PLAZA, SUITE 5200  
600 PEACHTREE STREET, NE  
ATLANTA, GA 30308-2216

**FORMALITIES LETTER**

\*OC000000005480052\*

Date Mailed: 10/17/2000

**NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION****FILED UNDER 37 CFR 1.53(b)*****Filing Date Granted***

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given TWO MONTHS from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing.  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 65.

*A copy of this notice **MUST** be returned with the reply.*

Customer Service Center  
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

12/07/2000 KZENDIE 00000029 09648777 65.00 OP  
01 FC:205